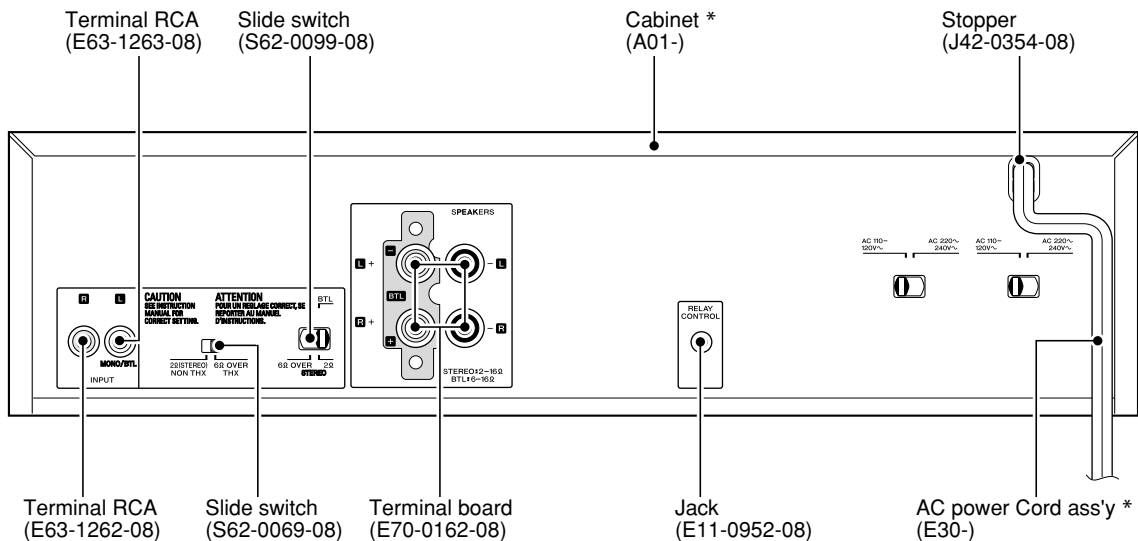
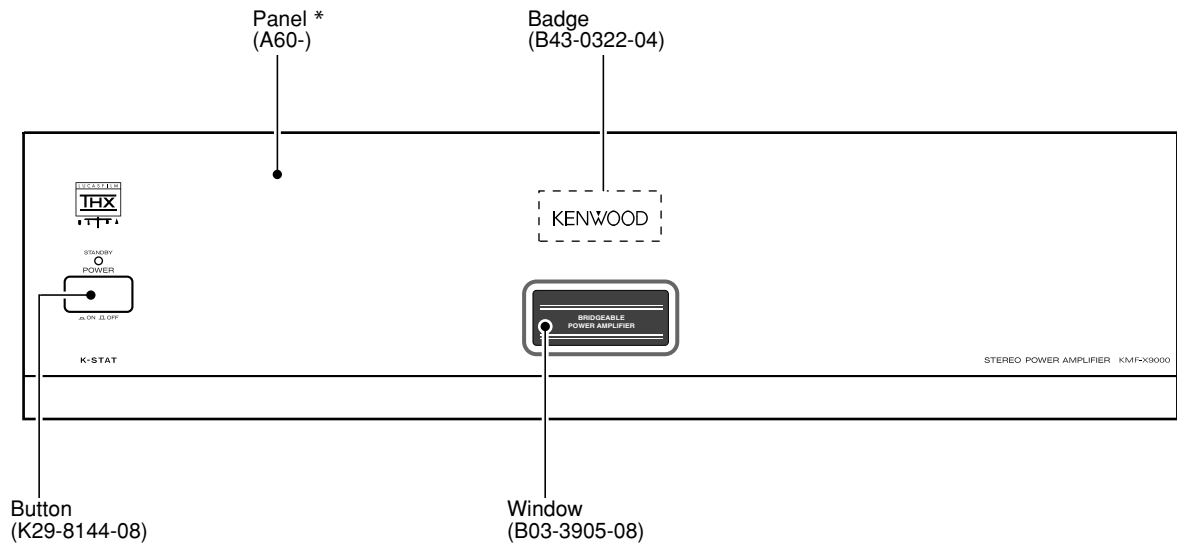


KMF-X9000/X9000-S MX-5000 SERVICE MANUAL



* Refer to parts list on page 10.

Caution : No connection of ground line if disassemble the unit. Please connect the ground line on rear panel, PCBs, Chassis and some others.



KMF-X9000/MX-5000

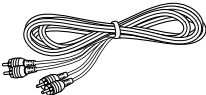
CONTENTS / ACCESSORIES

Contents

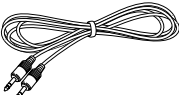
CONTENTS / ACCESSORIES	2	EXPLODED VIEW	9
ADJUSTMENT	2	PARTS LIST	10
PC BOARD	3	SPECIFICATIONS	Back cover
SCHEMATIC DIAGRAM	7		

Accessories

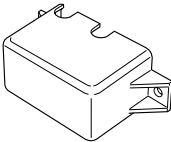
Audio cord (1)
(E30-0505-05)



Stereo mini-plug cord (1)
(E30-2733-05)



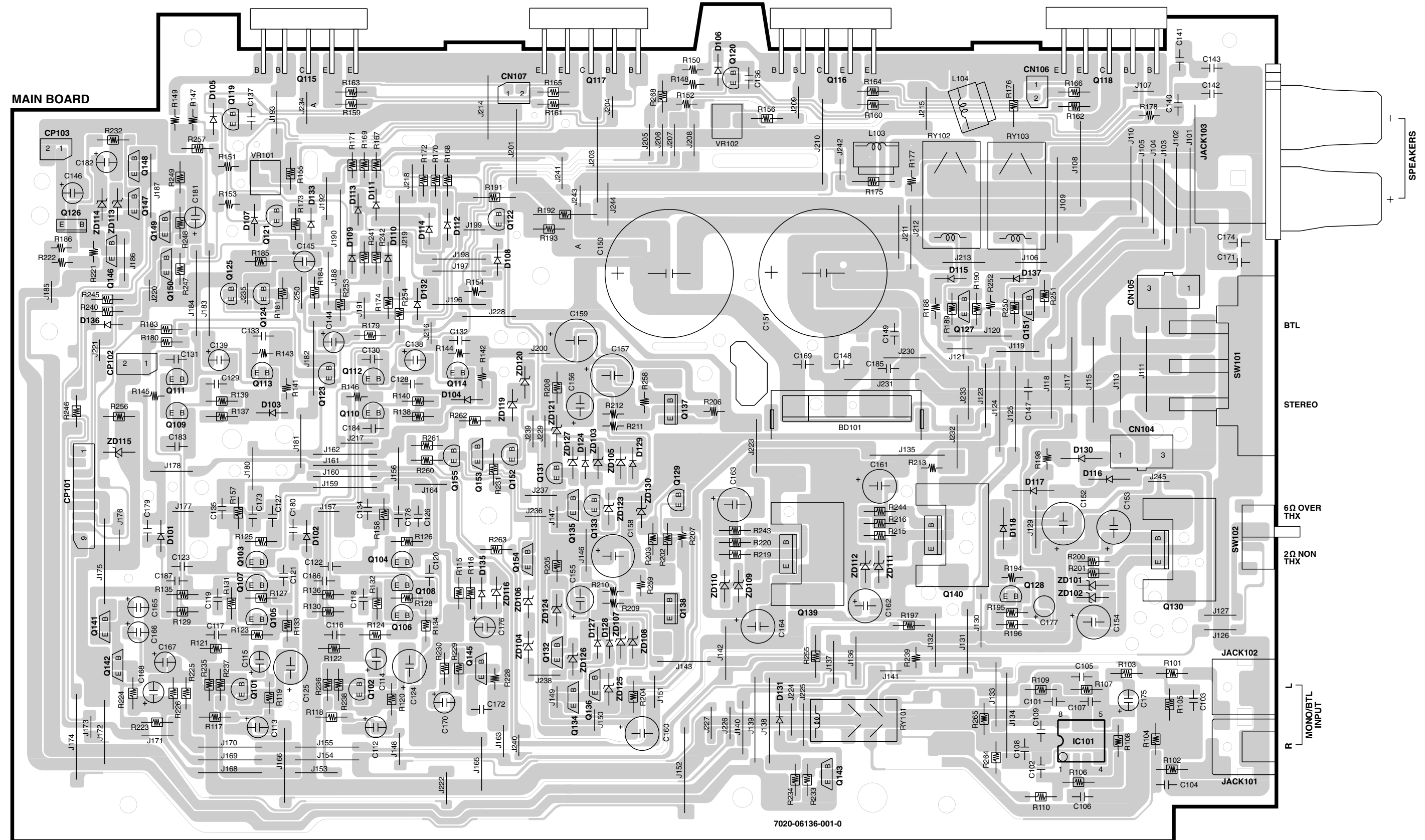
Speaker terminal cover (1)
(A09-1247-08)



ADJUSTMENT

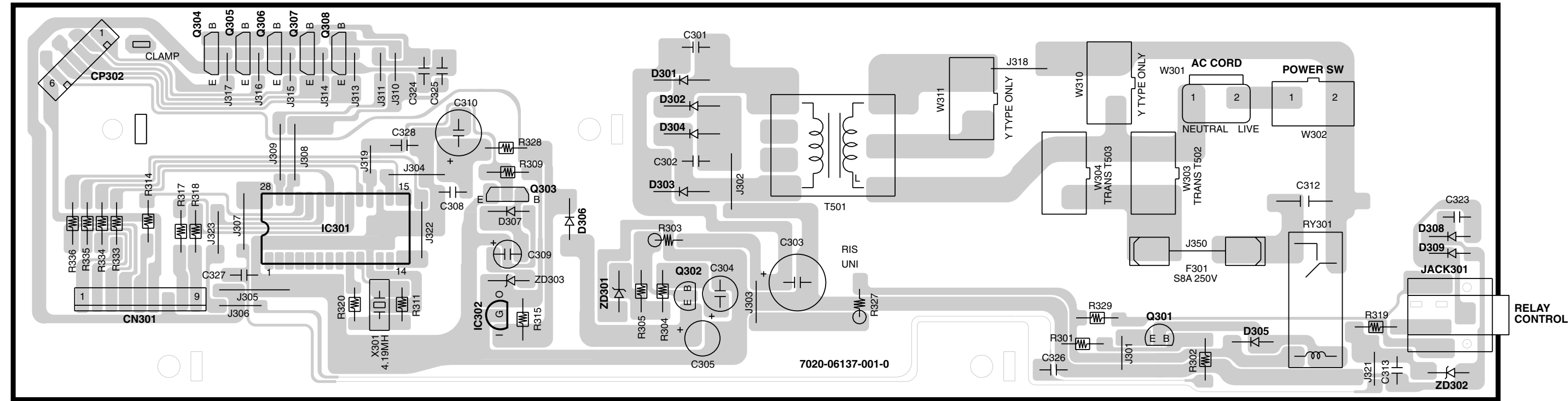
No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	AMPLIFIER SETTINGS	ALIGNMENT POINT	ALIGN FOR	FIG.
Unless otherwise specified, the individual switches should be set as following: POWER: ON							
1	IDLE CURRENT	—	Connect a DC voltmeter between pin 1 and pin 2 of connectors. CN107 (Lch) CN106 (Rch)	No signal input	VR107(L) VR106(R)	20 mV	

PC BOARD(Component side view)

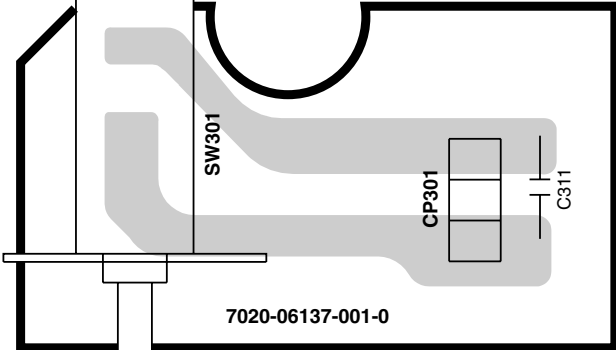


PC BOARD(Component side view)

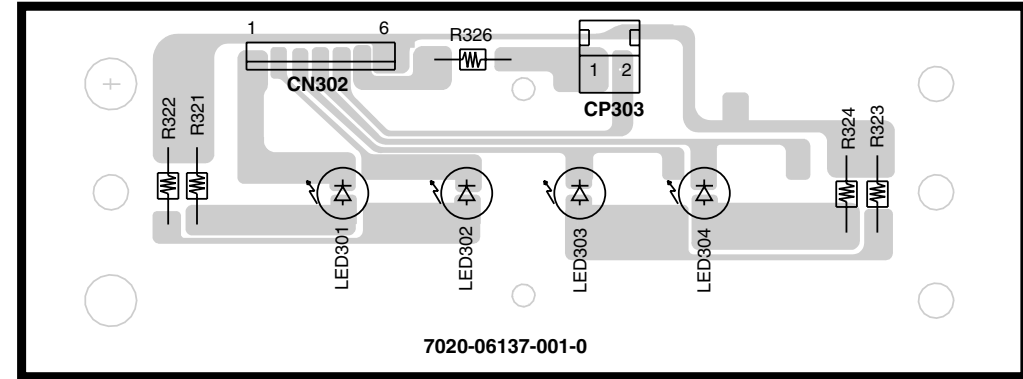
u-COM BOARD



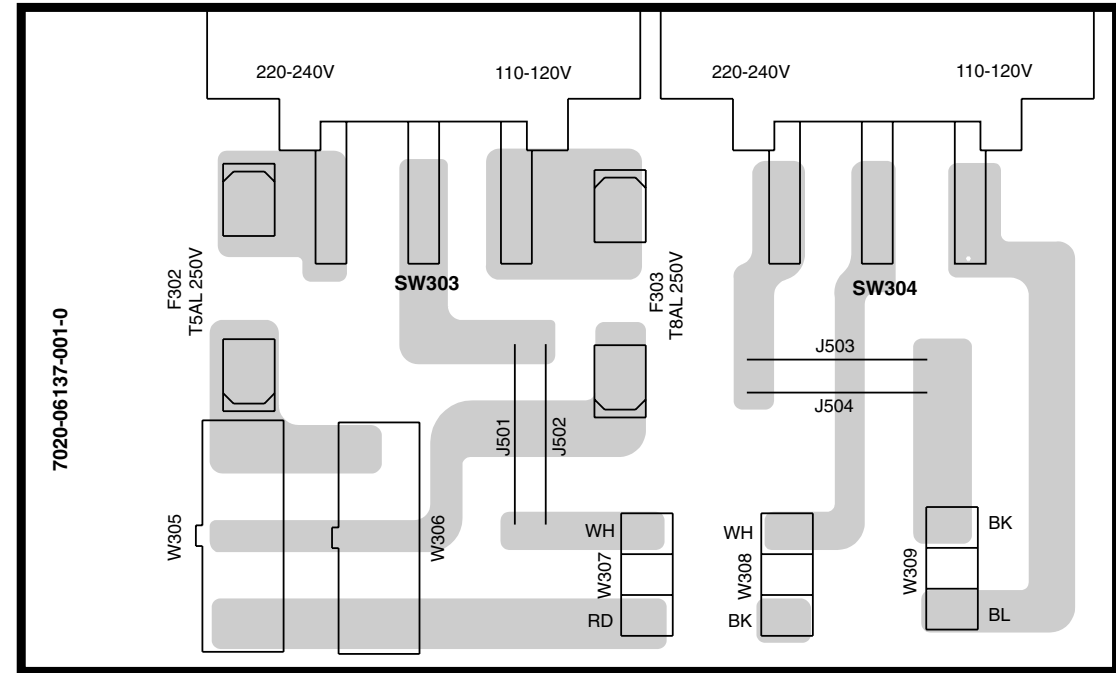
POWER SW BOARD



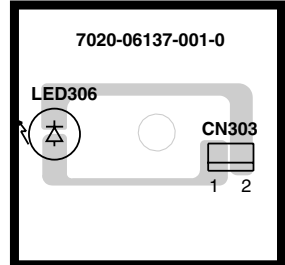
LED BOARD

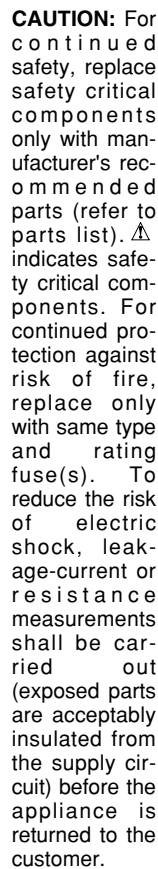


POWER SEL BOARD



STANDBY BOARD



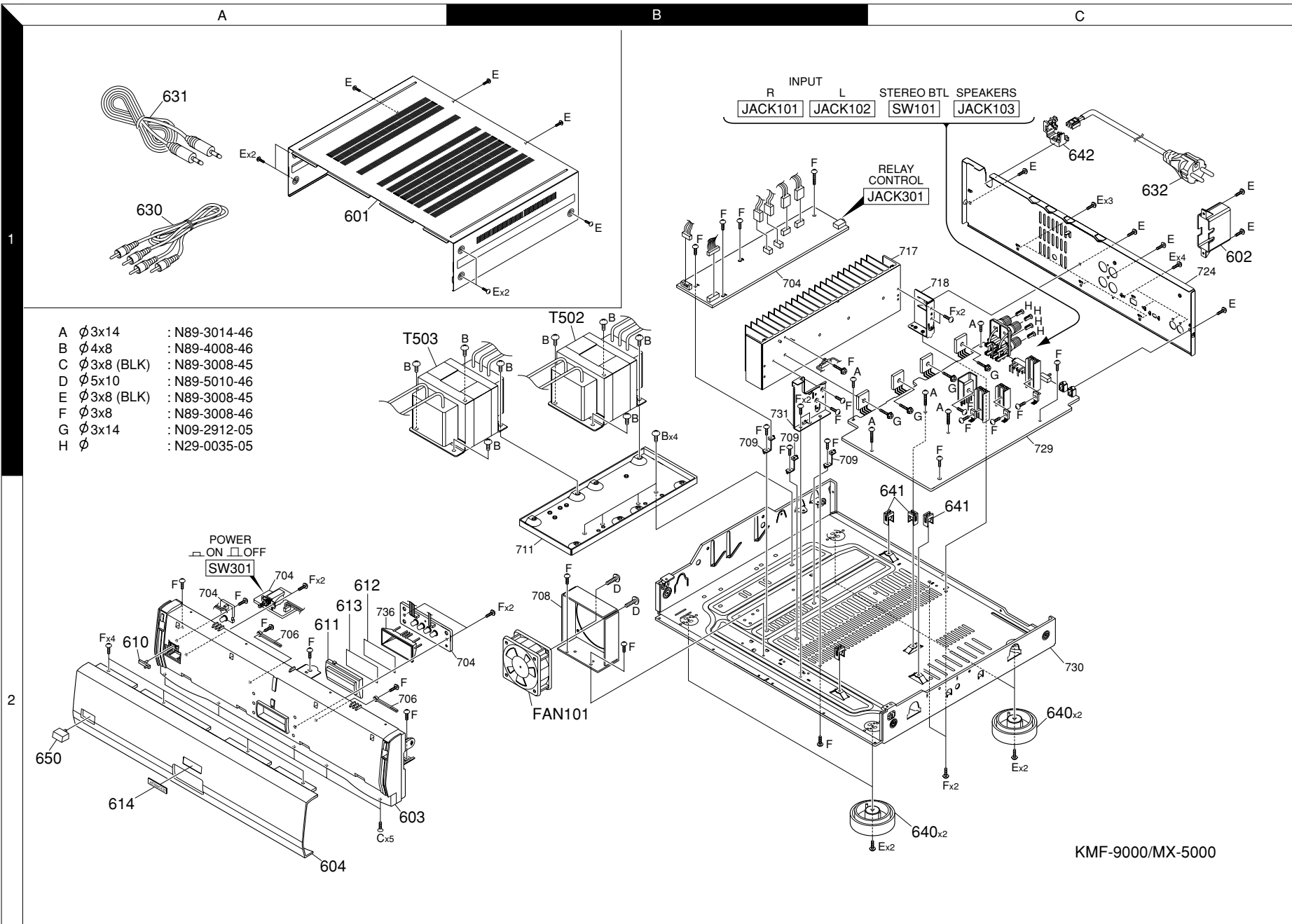


KMF-X9000
MX-5000

KENWOOD

KMF-X9000/MX-5000

EXPLODED VIEW



KMF-9000/MX-5000

* New Parts

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Teile ohne **Parts No.** werden nicht geliefert.

①

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
KMF-X9000/KMF-9000-S/MX-5000						
601	1A	*	A01-3856-08	CABINET	3000020226060	KEY
601	1A	*	A01-3857-08	CABINET	3000020226070	ES
602	1C	*	A09-1247-08	COVER	4317210311000	KY
603	2A	*	A22-1876-08	PANEL,FRAME	3067210701000	
604	2A	*	A60-2210-08	PANEL	3067210711000	K
604	2A	*	A60-2211-08	PANEL	3067210711010	EY
604	2A	*	A60-2212-08	PANEL	3067210711020	ES
610	2A	*	B03-3904-08	LENS	3710210230000	
611	2A	*	B03-3905-08	WINDOW	5070210643000	
612	2A	*	B11-1550-08	FILTER	5200210112000	
613	2A	*	B11-1551-08	FILTER	5207210112000	
614	2A	*	B43-0322-04	BADGE	5637210218000	K
-		*	B60-5097-08	INST.MANUAL(EN)	57072103500A0	EESY
-		*	B60-5098-08	INST.MANUAL(FR)	57072103500B0	EES
-		*	B60-5099-08	INST.MANUAL(GE)	57072103500C0	E
-		*	B60-5100-08	INST.MANUAL(NE)	57072103500E0	EES
-		*	B60-5101-08	INST.MANUAL(IT)		EES
-		*	B60-5102-08	INST.MANUAL(SP)	57072103500D0	EES
-		*	B60-5163-08	INST.MANUAL(EN)	5707210350080	K
-		*	B60-5164-08	INST.MANUAL(FR)	5707210350090	K
630	1A		E30-0505-05	CORD,RCA	L063210200000	
631	1A		E30-2733-05	CORD,SYNCH	L063210210040	
632	1C		E30-2839-08	CORD ASSY	L068000000100	KY
632	1C	*	E30-7254-08	CORD ASSY	L068000000110	EES
FAN101	2B	*	F09-0170-08	FAN,DC	G720240800010	
-		*	H10-7780-08	CUSHION.SNOW	6230210414000	
-		*	H10-7781-08	CUSHION.SNOW		
-			H25-1573-08	POLY BAG	6337000409030	
-			H25-1601-08	POLY BAG	6337000240010	
-		*	H25-1726-08	POLY BAG	6330000409020	
-		*	H50-4221-08	BOX,GIFT	6007020370010	K
-		*	H50-4222-08	BOX,GIFT	6007020370040	Y
-		*	H50-4223-08	BOX,GIFT	6007020370020	E
-		*	H50-4224-08	BOX,GIFT	6007020370030	ES
640	2C	*	J02-1539-08	FOOT	4007040201020	
641	2C		J19-5725-08	SUPPORTER	4070001601010	
642	1C	*	J42-0354-08	STOPPER	4380000730000	
650	2A	*	K29-8144-08	BUTTON	5090210621000	
T501		*	L07-3171-08	POWER TRANS	8200280004000	EES
T501		*	L07-3172-08	POWER TRANS	8200280906010	K
T501		*	L07-3173-08	POWER TRANS	8200350150020	Y
T502	1B	*	L07-3174-08	POWER TRANS	8200858630120	K
T502	1B	*	L07-3175-08	POWER TRANS	8200858630140	EES
T502	1B	*	L07-3176-08	POWER TRANS	8200858630160	Y
T503	1A	*	L07-3177-08	POWER TRANS	8200858630130	K
T503	1A	*	L07-3178-08	POWER TRANS	8200858630150	EES
T503	1A	*	L07-3179-08	POWER TRANS	8200858630170	Y
ELECTRONIC PARTS						
LED301~304		*	B30-2631-08	LED,ROUND	K500056000010	
LED306		*	B30-2632-08	LED,ROUND	K500052016010	

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②

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C101-105			CC45FSL1H101J	CERAMIC	100PF	J
C106,107			CC45FCH1H040C	CERAMIC	4.0PF	C
C108,109			CC45FSL1H101J	CERAMIC	100PF	J
C112-115			CE04LW1H3R3M	ELECTRO	3.3UF	50WV
C116,117			CC45FSL1H680J	CERAMIC	68PF	J
C118,119			CK45FB1H222Z	CERAMIC	2200PF	Z
C120,121			CC45FSL1H050C	CERAMIC	5.0PF	C
C122,123			CC45FSL1H680J	CERAMIC	68PF	J
C124,125			CE04LW1A221M	ELECTRO	220UF	10WV
C126,127			CC45FSL1H101J	CERAMIC	100PF	J
C128,129			CK45FB1H103K	CERAMIC	0.010UF	K
C130,131			CC45FCH1H220J	CERAMIC	22PF	J
C132,133			CC45FSL1H221J	CERAMIC	220PF	J
C134,135			CC45FCH1H040C	CERAMIC	4.0PF	C
C136,137			CK45FB1H103K	CERAMIC	0.010UF	K
C138,139			CE04LW1H470M	ELECTRO	47UF	50WV
C140-143			CF92FV1H104K	MF-C	0.10UF	K
C144			CE04LW1H4R7M	ELECTRO	4.7UF	50WV
C145			CE04LW1A221M	ELECTRO	220UF	10WV
C146			CE04LW1V470M	ELECTRO	47UF	35WV
C147-149			CK45FE2H103P	CERAMIC	0.010UF	P
C150,151			C90-5751-08	ELECTRO	10000UF	80WV
C152			CE04LW1J221M	ELECTRO	220UF	63WV
C153			CE04LW1E471M	ELECTRO	470UF	25WV
C154			CE04LW1V100M	ELECTRO	10UF	35WV
C155,156			CE04LW1V470M	ELECTRO	47UF	35WV
C157-160			CE04LW2A470M	ELECTRO	47UF	100WV
C161-164			CE04LW1V100M	ELECTRO	10UF	35WV
C165			CE04LW1H010M	ELECTRO	1.0UF	50WV
C166			CE04LW1H4R7M	ELECTRO	4.7UF	50WV
C167			CE04LW1V100M	ELECTRO	10UF	35WV
C168			CE04LW1H2R2M	ELECTRO	2.2UF	50WV
C169			C91-1646-08	FILM	0.1UF	250V
C170			CE04LW1H4R7M	ELECTRO	4.7UF	50WV
C171			CK45FB1H472K	CERAMIC	4700PF	K
C172			CC45FSL1H050C	CERAMIC	5.0PF	C
C173			CC45FSL1H101J	CERAMIC	100PF	J
C174			CK45FB1H472K	CERAMIC	4700PF	K
C175			CE04LW1H3R3M	ELECTRO	3.3UF	50WV
C176			CE04LW1V470M	ELECTRO	47UF	35WV
C177			CE04LW2A100M	ELECTRO	10UF	100WV
C178-180			CC45FSL1H101J	CERAMIC	100PF	J
C181			CE04LW1V470M	ELECTRO	47UF	35WV
C182			CE04LW1V220M	ELECTRO	22UF	35WV
C183,184			CC45FSL1H220J	CERAMIC	22PF	J
C185			C91-1646-08	FILM	0.1UF	250V
C186,187			CK45FB1H102K	CERAMIC	1000PF	K
C301,302			CK45FE2H103P	CERAMIC	0.010UF	P
C303			CE04LW1E102M	ELECTRO	1000UF	25WV
C304,305			CE04LW1C470M	ELECTRO	47UF	16WV
C308			CK45FB1H103K	CERAMIC	0.010UF	K
C309			CE04LW1H010M	ELECTRO	1.0UF	50WV
C310			CE04LW1C101M	ELECTRO	100UF	16WV
C311,312			C91-1571-08	CERAMIC	0.0047UF	250VAC
C313			CK45FB1H103K	CERAMIC	0.010UF	K

Δ

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PARTS LIST

KMF-X9000/MX-5000

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3

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C323-328			CK45FB1H103K	CERAMIC 0.010UF K		
JACK101 JACK102 JACK103 JACK301			E63-1262-08 E63-1263-08 E70-0162-08 E11-0952-08	TER,RCA 1P RED G600110930010 TER,RCA 1P WHT G600110929010 TER,BOARD SPKR G612041087300 JACK,D3.5 G401035100020		
Δ F301 Δ F301 Δ F302 Δ F303			F50-0204-08 F50-0205-08 F04-5022-05 F50-0206-08	FUSE (5.2"20) G650502251160 FUSE (5.2"20) G650802251010 FUSE (5.2"20) 5508303035D FUSE (5.2"20) G650802251020	EESY K Y Y	
L103,104 X301			L39-1625-08 L78-0748-08	COIL,FILTER-INDD330102000050 RESONATOR,CERAME830419000060		
R141-146 R147,148 R149-152 R153,154 R175 176			RD14GB2E221J RD14GB2E101J RD14GB2E470J RD14GB2E101J RD14GB2E100J	FL-PROOF RD 220 J 1/4W FL-PROOF RD 100 J 1/4W FL-PROOF RD 47 J 1/4W FL-PROOF RD 100 J 1/4W FL-PROOF RD 10 J 1/4W		
R177 178 R186 R188 R194 R198			RS14GB3A100J RD14GB2E010J RD14GB2E221J RD14GB2E470J RS14KB3AR22J	FL-PROOF RS 10 J 1W FL-PROOF RD 1 J 1/4W FL-PROOF RD 220 J 1/4W FL-PROOF RD 47 J 1/4W FL-PROOF RS 0.22 J 1W		
R206,207 R209 R210 R211 R212			RD14GB2E470J RD14GB2E562J RS14GB3A391J RD14GB2E562J RS14GB3A391J	FL-PROOF RD 47 J 1/4W FL-PROOF RD 5.6K J 1/4W FL-PROOF RS 390 J 1W FL-PROOF RD 5.6K J 1/4W FL-PROOF RS 390 J 1W		
R213 R221,222 R228 R239 R252			RD14GB2E101J RS14GB3A561J RD14GB2E220J RS14GB3A821J RD14GB2E221J	FL-PROOF RD 100 J 1/4W FL-PROOF RS 560 J 1W FL-PROOF RD 22 J 1/4W FL-PROOF RS 820 J 1W FL-PROOF RD 220 J 1/4W		
R258,259 R303 R327 VR101,102			RD14GB2E101J RD14GB2E470J RD14GB2E470J R12-0604-05	FL-PROOF RD 100 J 1/4W FL-PROOF RD 47 J 1/4W FL-PROOF RD 47 J 1/4W VR,SEMI CERMET C544101015100		
Δ RY101~3 RY301 SW101 SW102 SW301			S76-0113-08 S76-0090-05 S62-0099-08 S62-0069-08 S68-0144-08	RELAY G680000250010 RELAY G6800090502010 SW,SLIDE G060040540010 SW,SLIDE G060112010010 SW,PUSH G000005000010		
Δ SW303,304			S90-0150-08	SW,SLIDE G060040540010	Y	
BD101 D101-115 Δ D116-118 D124 D127-129			D5SB20 1SS133 1N4007 1SS133 1SS133	D,RECTIFIER BRI K047400300010 D,SWITCHING K000013300520 D,SWITCHING K000400700520 D,SWITCHING K000013300520 D,SWITCHING K000013300520		
D130 D131-133 D135-137 Δ D301-304 D305-309			1N4007 1SS133 1SS133 IN4007 1SS133	D,SWITCHING K000400700520 D,SWITCHING K000013300520 D,SWITCHING K000013300520 D,SWITCHING K000400700520 D,SWITCHING K000013300520		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
IC101 IC301 IC302 Q101,102 Q103-108			NJM4565DD HD404341RD34S KIA7042P KTC2874B KSA992F-X	IC,LINEAR OP J121456500010 IC,CPU MICRO PR J020404341340 IC,LINEAR-RESET J125704200010 SEMI,TR/GE NPN J502287400010 SEMI,TR/GE PNP J5000992F0050		
Q109-112 Q113,114 Q115,116 Q117,118 Q119,120			KSC1845F KSA992F-X TRAIT5N TRAIT5P KSC1845F	SEMI,TR/GE NPN J5021845F0000 SEMI,TR/GE PNP J5000992F0050 SEMI,DARL TR/NP J583050000010 SEMI,DARL TR/PN J581050000010 SEMI,TR/GE NPN J5021845F0000		
Q121-123 Q124,125 Q126 Q127 Q128,129			KSA992F-X KSC1845F KTC2026 2SC1740SR KSA992F-X	SEMI,TR/GE PNP J5000992F0050 SEMI,TR/GE NPN J5021845F0000 SEMI,TR/GE NPN J5032026Y0010 SEMI,TR/GE NPN J5021740S0010 SEMI,TR/GE PNP J5000992F0050		
Δ Q130 Q131 Q132 Q133 Q134			KTC2026 KSC1845F 2SA933S KSC1845F DTA143TS	SEMI,TR/GE NPN J5032026Y0010 SEMI,TR/GE NPN J5021845F0000 SEMI,TR/GE PNP J5000933S0050 SEMI,TR/GE NPN J5021845F0000 SEMI,BRT/PNP RA J6000143T0010		
Q135 Q136 Q137 Q138 Q139			DTC124ES 2SA933S KTC2026 KTA1046Y KTC2026	SEMI,BRT/NPN RC J6020124E0010 SEMI,TR/GE PNP J5000933S0050 SEMI,TR/GE NPN J5032026Y0010 SEMI,TR/GE PNP J5001046Y0010 SEMI,TR/GE NPN J5032026Y0010		
Q140 Q141 Q142 Q143 Q145			KTA1046Y DTC124ES DTA114ES 2SC1740SR 2SC1740SR	SEMI,TR/GE PNP J5001046Y0010 SEMI,BRT/NPN RC J6020124E0010 SEMI,BRT/PNP RA J6000114E0010 SEMI,TR/GE NPN J5021740S0010 SEMI,TR/GE NPN J5021740S0010		
Q146-148 Q149-152 Q153 Q154 Q155			DTC124ES 2SC1740SR DTC124ES 2SA933S KSA992F-X	SEMI,BRT/NPN RC J6020124E0010 SEMI,TR/GE NPN J5021740S0010 SEMI,BRT/NPN RC J6020124E0010 SEMI,TR/GE PNP J5000933S0050 SEMI,TR/GE PNP J5000992F0050		
Δ Q301 Q302 Q303 Q304-308 ZD101			2SC1740SR KSC2316-Y DTC124ES DTC114ES MTZJ11B	SEMI,TR/GE NPN J5021740S0010 SEMI,TR/GE NPN J5022316Y0020 SEMI,BRT/NPN RC J6020124E0010 SEMI,BRT/NPN RC J6020114E0010 D,ZENER K06011R044520		
ZD102 ZD103 ZD104 ZD105 ZD106			MTZJ13B MTZJ15B MTZJ11B RD22ES(B) MTZJ11B	D,ZENER K06013R044520 D,ZENER K06015R044520 D,ZENER K06011R044520 D,ZENER K06022R044520 D,ZENER K06011R044520		
ZD107 ZD108 ZD109-112 ZD113 ZD114			RD22ES(B) MTZJ15B MTZJ8.2B MTZJ15B MTZJ13B	D,ZENER K06022R044520 D,ZENER K06015R044520 D,ZENER K06008R244520 D,ZENER K06015R044520 D,ZENER K06013R044520		
ZD115,116 ZD119,120 ZD121 ZD123 ZD124			MTZJ5.1B MTZJ11B MTZJ6.2B MTZJ5.1B MTZJ6.2B	D,ZENER K06005R144520 D,ZENER K06011R044520 D,ZENER K06006R244520 D,ZENER K06005R144520 D,ZENER K06006R244520		

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KMF-X9000/MX-5000
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ZD125			MTZJ5.1B	D,ZENER		
ZD126,127			MTZJ12B	D,ZENER		
ZD130			MTZJ2.7B	D,ZENER		
ZD301			MTZJ6.2B	D,ZENER		
ZD302			MTZJ5.1B	D,ZENER		
ZD303			MTZJ2.7B	D,ZENER		

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HOW TO READ THE PARTS LIST
ABBREVIATION OF MODEL AND MASS PRODUCTION'S DESTINATIONS

MODEL	ABB.	Australia	Canada	China	England	Europe	Germany	Korea	Malaysia
KMF-X9000	-	-	-	-	-	E	-	-	-
KMF-X9000-S	-	-	-	-	-	ES	-	-	-
MX-5000	-	-	-	-	-	-	-	-	-
MODEL	ABB.	Mexico	PX/AAFES	Russia	Scandinavia	Shanghai	USA	Other area	
KMF-X9000	-	-	Y	-	-	-	-	-	
KMF-X9000-S	-	-	-	-	-	-	-	-	
MX-5000	-	-	-	-	-	-	K	-	

KMF-X9000/MX-5000

SPECIFICATIONS

Power amplifier section

Rated power output

- For other countries

STEREO MODE

130 watts per channel minimum RMS, both channels driven at 6 Ω , from 20 Hz to 20,000 Hz with no more than 0.02 % total harmonic distortion (FTC)

MONO (BTL) MODE

270 watts minimum RMS, at 6 Ω , from 20 Hz to 20,000 Hz with no more than 0.03 % total harmonic distortion (FTC)

Frequency response

MAIN IN 5 Hz ~ 100 kHz, +0 dB, -3 dB

Signal to noise ratio

(IHF'66)

MAIN IN 115 dB

Input sensitivity / Impedance

STEREO MODE

MAIN IN 1.1 V / 20 k Ω

MONO (BTL) MODE

MAIN IN 1.5 V / 100 k Ω

- For Europe

(IEC)

STEREO MODE

From 20 Hz to 20,000 Hz, 0.7 % T.H.D. at 6 Ω
..... 130 W+ 130 W

MONO (BTL) MODE

From 20 Hz to 20,000 Hz, 0.7 % T.H.D. at 6 Ω
..... 270 W

(DIN)

STEREO MODE

1 kHz, 0.7 % T.H.D. at 6 Ω 145 W + 145 W

MONO (BTL) MODE

1 kHz, 0.7 % T.H.D. at 6 Ω 285 W

Total harmonic distortion

STEREO MODE

..... 0.02 % (20 Hz ~ 20 kHz, 130 W, 6 Ω)

..... 0.0018 % (1 kHz, 130 W, 6 Ω)

..... 0.05 % (1 kHz, 50 W, 2 Ω)

MONO (BTL) MODE

..... 0.03 % (20 Hz ~ 20 kHz, 270 W, 6 Ω)

..... 0.0018 % (1 kHz, 270 W, 6 Ω)

General

Power consumption 3.5 A

..... 320 W

..... Less than 2 W (Standby)

Dimensions

W: 440 mm (17-5/16")

H: 128 mm (5-1/32")

D: 385 mm (15-5/32")

Weight (net) 12.3 kg (27.2 lb)



KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

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